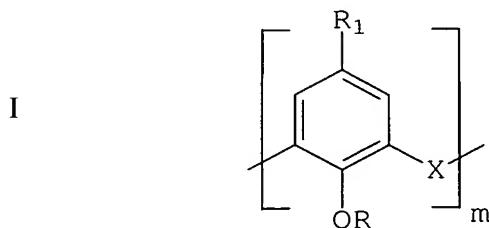


What Is Claimed Is:

1. Excipient system for an active substance consisting of at least one carrier molecule from the group of calixarenes with the general formula I



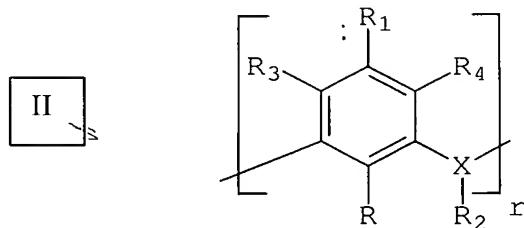
with R = H, alkyl, aryl, alkyloxy, aryloxy, amin, amide, carbonic acids and sulphonic acids with 1 to 12 C-atoms, amino acids, glucose or crown ethers,

R₁ = H, alkyl, aryl, alkyloxy, aryloxy, amin, amide, carbonic acids and sulphonic acids with 1 to 12 C-atoms, sulphonamides, amino acids, glucose or crown ethers, cyclodextrin, purine bases, pyrimidine bases or azophenyl dyes,

X = methylene, S, O, N, P or Si and

m = 4, 5, 6 or 8,

wherein the aromatic systems may have heteroatoms and/or resorcinarenes with the general formula II



with R = H, alkyl, aryl, alkyloxy, aryloxy, amin, amide, carbonic acids and sulphonic acids with 1 to 12 C-atoms or amino acids,

R₁ = H, alkyl, aryl, alkyloxy, aryloxy, amin, amide, carbonic acids and sulphonic acids with 1 to 12 C-atoms, sulphonamides, amino acids, glucose or crown ether, cyclodextrin, purine bases, pyrimidine bases or azophenyl dyes,

R₂ = alkyl or aryl,

X = methylene, S, O, N, P or Si and

r = 4, 5, 6 or 8,

and

R₃ = hydroxyl and R₄ = H

or

R₃ and R₄ = 0, where R₃ and R₄ are bridged by way of methyls, ethyls or quinoxaline,

wherein the aromatic systems may have heteroatoms, and at least one active substance.

2. Excipient system for an active substance from claim 1, wherein the carrier is modified to increase water solubility, in particular by sulphonic acid groups, carbonic acid groups, amin groups and/or alcohols.

3. Excipient system for an active substance from at least one of the preceding claims, wherein the carrier is modified to influence the pharmacokinetics of the system, in particular by sulphonic acid groups, or glucuronic acid groups and is a second-order metabolite.

4. Excipient system for an active substance from at least one of the preceding claims, wherein the carrier is enzymatically degradable while releasing the active substance, in particular by aldolases, ketolases, esterases and cytochrome P 450.

5. Excipient system for an active substance from at least one of the preceding claims, wherein the carrier is modified by means of a linker which can be broken down enzymatically and is present as a prodrug.
6. Excipient system for an active substance from at least one of the preceding claims, wherein the carrier is modified by means of receptor-analogous groups which can be broken down statically by endocytosis.
7. Excipient system for an active substance from at least one of the preceding claims, wherein the active substance is covalently bonded to the carrier.
8. Excipient system for an active substance from at least one of the preceding claims, wherein the active substance is bonded to the carrier through a spacer, for example, a nucleotide spacer or a peptide spacer.
9. Use of calixerenes and/or resorcinarenes with the general formula I or II from at least one of the claims 1 to 8 as excipient systems for active substances.